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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,200	06/23/2003	Kenji Tsukada	Q76217	6413	
23373	7590 04/14/2006		EXAMINER		
	MION, PLLC		TRAN, LY T		
2100 PENNS' SUITE 800	YLVANIA AVENUE, N	I.W.	ART UNIT	PAPER NUMBER	
	ON, DC 20037		2853		
			DATE MAIL ED. 04/14/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

			/ 4				
	Application No.	Applicant(s)					
	10/601,200	TSUKADA, KENJI					
Office Action Summary	Examiner	Art Unit					
	Ly T. TRAN	2853					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard part of the maximum statutory period for reply will, by standard patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN R 1.136(a). In no event, however, may riod will apply and will expire SIX (6) M atute, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 0.	2 February 2006.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ 1	This action is non-final.						
3) Since this application is in condition for allo			ts is				
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>11 and 13-22</u> is/are pending in the	e application.						
4a) Of the above claim(s) is/are with	drawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>11 and 13-22</u> is/are rejected.	,						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction an	nd/or election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Exam	niner.						
10) ☐ The drawing(s) filed on is/are: a) ☐	accepted or b)⊡ objected t	to by the Examiner.					
Applicant may not request that any objection to							
Replacement drawing sheet(s) including the co							
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attacr	led Office Action of form PTO-15.	۷.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C	§ 119(a)-(d) or (f).					
1. Certified copies of the priority docum							
2. Certified copies of the priority docum		•					
<ol> <li>Copies of the certified copies of the papplication from the International Bu</li> </ol>	· · · · · · · · · · · · · · · · · · ·	en received in this National Stage	;				
* See the attached detailed Office action for a		ot received					
oce the attached detailed emice detail for a		o. 100011001.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	· —	w Summary (PTO-413)					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE</li> </ul>	7 3/08) 5) \( \bigcap \text{ Notice } \)	No(s)/Mail Date of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>2/17/06</u> .	6)  Other: _	·					

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#### **DETAILED ACTION**

## Claim Objections

1. Claim 11 is objected to because of the following informalities: in claim 1, there is no limitation recites that the controller starts the movement of the wiper, therefore, the controller can not stop the wiper since it never been start. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11,14,16,18, 20 and 21 are rejected under 35 U.S.C. 103(a) as being obvious over Takemoto et al (USPN 6,371,595) in view of Ikeda (JP 05201012).

With respect to claims 1, 14,16, 18 and 20, Takemoto et al. disclose a liquid ejecting apparatus comprising:

- A liquid ejecting head (Column 6: line 12-13) having a plurality of nozzles for ejecting a liquid drop
- A wiping member (Column 7: line 1-3), wiping an opening portion of the nozzle

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 A carriage mounted with the liquid head, and moving in a horizontal direction relative to the wiping member (Column 7: line 33-34)

 A controller, stops a movement of the wiping member relative to the carriage for a predetermined time period in a state that the wiping member is brought into press contact with the liquid head after wiping the liquid head (Column 8: line 1-14)

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- the wiping member is moved relative to the carriage in a second horizontal direction substantially orthogonal to the horizontal direction after movement of the wiping member is stopped for a predetermined time period in a state that the wiping member is brought into press contact with the liquid head(Column 8: 1-14)
- the wiping member is comprised of an elastic member (Column 1: line 49-50) wherein the wiping member is moved in a direction substantially orthogonal to a direction in which the wiping member is bent after the predetermined time period is passed in the state that the wiping member is brought into press contact with the liquid head such that wiping member is released from the contact state (Column 8: line 14-23).

Takemoto fails to teach an inclined plat is mounted on the carriage and formed with an inclined face having a rising inclination as being far from the liquid ejecting head.

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Ikeda teaches an inclined plat is mounted on the carriage and formed with an inclined face having a rising inclination as being far from the liquid ejecting head (Abstract, Fig. 7).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have an inclined surface as taught by Ikeda. The motivation of doing so is to restrain scattering of ink when the wiper cleans the recording head and preventing a record material from being stained.

3. Claims 13, 15 and 17are rejected under 35 U.S.C. 103(a) as being obvious over Takmoto et al (USPN 6,371,595) in view of Ikeda (JP 05201012), further in view of Nakagawa et al (US 2004/0130588).

The combination of Takemoto and Ikeda fails to teach the wiping member has a rectangular shape in a horizontal section and wherein a longitudinal direction of the rectangular shape of the wiping member is substantially in orthogonal to the horizontal direction, the wiping face being inclined and the front end of the wiping member is tapped shaped.

Nakagawa teaches the wiping member has a rectangular shape in a horizontal section and wherein a longitudinal direction of the rectangular shape of the wiping member is substantially in orthogonal to the horizontal direction, the wiping face being inclined and the front end of the wiping member is tapped shaped (Fig.3, 5, 6, 7).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the shape of wiper as taught by Nakagawa. The motivation

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of doing so is to better control the wiping force through curvature change therefore prevent the wiper from hydroplaning over waste fluid to flow down.

4. Claim 11 and 22 are rejected under 35 U.S.C. 103(a) as being obvious over Takemoto et al (USPN 6,371,595) in view of Arakawa (USPN 6,679,578).

With respect to claims 11 and 22, Takemoto discloses:

- A liquid ejecting head (Column 6: line 12-13) having a plurality of nozzles for ejecting a liquid drop
- A wiping member (Column 7: line 1-3), wiping an opening portion of the nozzle
- A carriage mounted with the liquid head, and moving in a horizontal direction relative to the wiping member (Column 7: line 33-34)
- A controller, stops a movement of the wiping member relative to the carriage for a predetermined time period in a state that the wiping member is brought into press contact with the liquid head after wiping the liquid head (Column 8: line 1-14).

However, Takemoto fails to teach the inclined plate and the inclined plate and the liquid head are separated with a clearance space.

Arakawa teaches the inclined plate and the inclined plate (element 16) and the liquid head are separated with a clearance space (Fig.3, fig.6A).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the inclined plate and the head are separated with a

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clearance space as taught by Arakawa. The motivation of doing so is to prevent the ink adhere to the wiper again.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T. TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

April 12, 2006

STEPHEN MEIER

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